Crestron CH-TEMP-WM
Temperature sensor

Operation Guide

CRESTRON®

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Description

Figure 1: CH-TEMP-WM

Functional Description

The CH-TEMP-WM is a Cresnet temperature sensor (Figure 1).

- Wall-mountable temperature sensor.
- Temperature range from 0 to 50°C.
- Nice compact flat design.
- Sensor receives power and sends data via the Cresnet bus.
- Daisy chaining connections available.
- Fits in a standard European 1-gang electrical box (55 – 65 mm diameter).
- Bleu LED feedback for power indication.

Applications:

- Heating / cooling
- Temperature display

Technical data

Dimensions	:	80 x 80 x 25 mm (L x B x H)
Weight	:	70 g
Color	:	case white-grey RAL7035
Material	:	Self-extinguishing NORYL
Mounting	:	Standard European 1-gang electrical box
Connectors Cresnet / Inputs	:	Mini Phoenix 3.5mm plug terminal
Addressing Cresnet	:	1 rotary switch
Power	:	24 VDC, Cresnet
Power consumption	:	max. 25mA
Cresnet Power factor	:	0.5W
Crestron Device Library	:	CNTS-N
Temperature range	:	0° to 50°C
Accuracy	:	0.1°C
Extra	:	self calibrating
Status	:	1 blue LED for Power status (with jumper for LED on / off)
Includes	:	Interface with 2x 4-pole mini phoenix connections.

General view

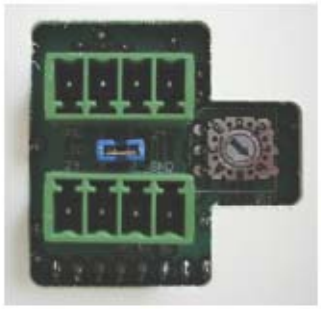

Figure 2: Cresnet connection

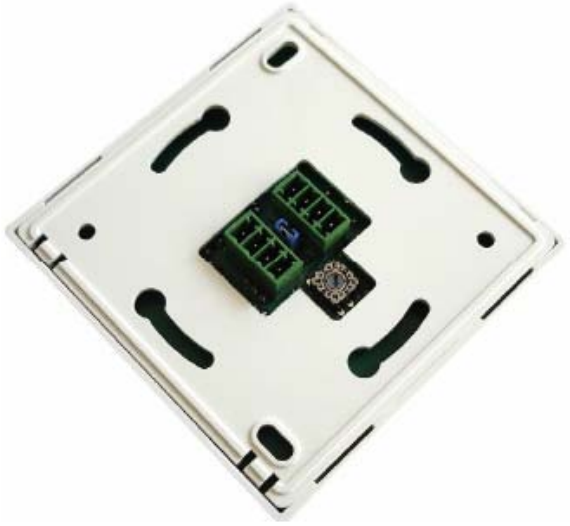

Figure 3: Mounting view

Cresnet Connections

Note: Before making any connections, CRESTRON recommends that all power is off and the installer reviews the latest revision of the network interconnection drawing (DOC5411i).

Refer to figure 4 and connect the CH-TEMP-MW to the Cresnet network via a Cresnet network cable (CRESNET cable). This cable is not supplied with the CH-TEMP-MW but can be obtained from Crestron International.

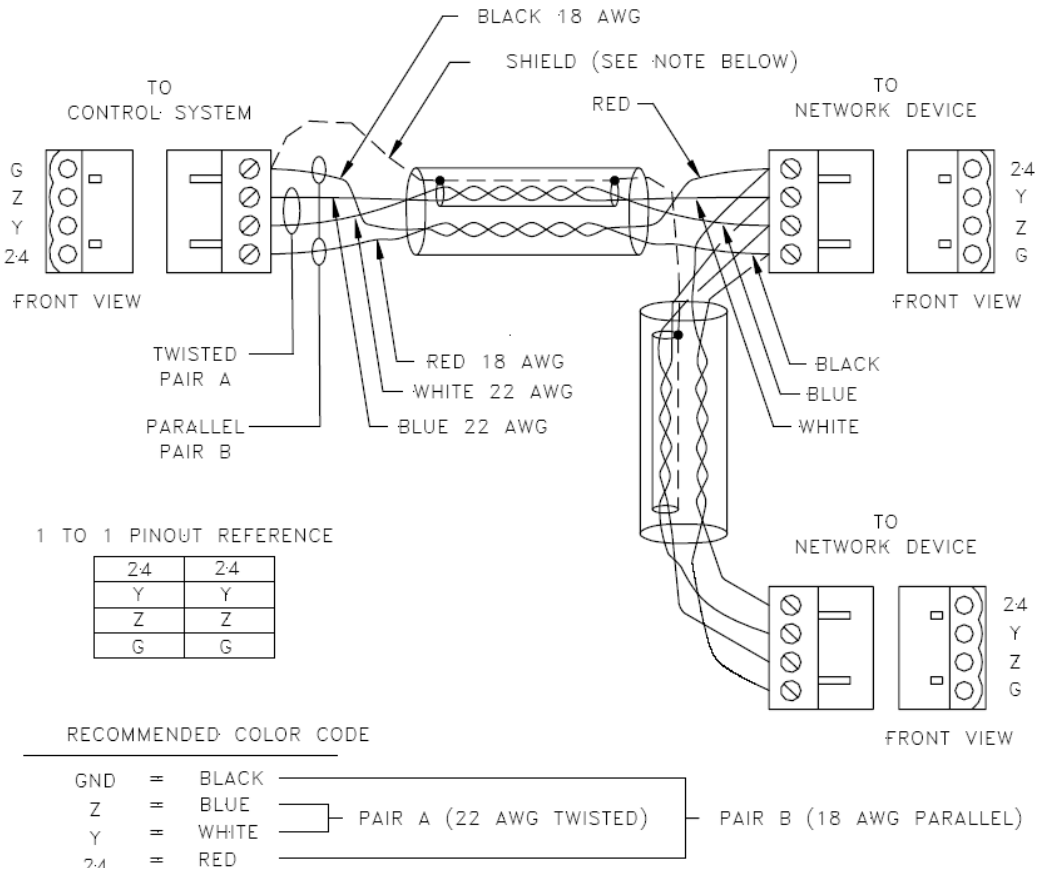

Figure 4: CH-TEMP-WM, Cresnet Hook-up

Cresnet ID

Every equipment and user interface within the network requires a unique identity code (NET ID). These codes are recognized by a two-digit hexadecimal number from 03 to FE. The NET ID of each unit must match an ID code specified in the Simpl Windows program. (For a CH-TEMP-WM the NET ID can be set between E0 and EF).

Use the following method to change NET ID of the CH-TEMP-WM.

1. Locate the miniature rotary switches on the bottom face (refer to figure 5). This is rotary switch will only change the least-significant digit or letter of the unit his NET ID since the most-significant digit or letter is fixed set to E.

2. Use a small screwdriver and rotate the arrow in the center of the rotary switch to the position of the least-significant digit or letter of the unit's ID CODE that you desire.
   For example when the rotary switch is placed to 2, the CH-TEMP-MW is set to NET ID E2.

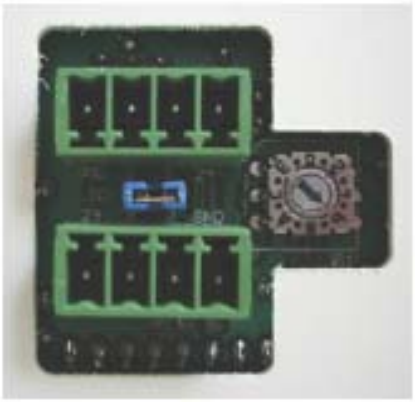

Figure 5: NET ID rotary switch

Power Feedback

When the CH-TEMP-WM is connected to the cresnet (see page 5) a bleu LED will illuminate. This bleu LED can be disconnected by removing the jumper that is located next to the rotary switch. When this jumper is removed the CH-TEMP-WM will keep on working but no LED feedback will be shown.

Programming

The next subsections describe a sample SIMPL Windows program that utilizes a CH-TEMP-MW. It provides a description of how to actually create the SIMPL Windows program.

NOTE: The following descriptions assume that the reader has knowledge of SIMPL Windows. If not, please refer to the extensive help information provided with the software.

Minimal software requirements
SIMPL Windows 2.01.06
Ops. for CNX: 5.12.63X/W
Ops. for "2" series: C2-1014.cuz
check website www.crestron.com for leatest OPS and software versions

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Configuration manager

A CH-TEMP-MW needs to be defined as a **CNTS-N** in Simpl Windows (Figure 6).

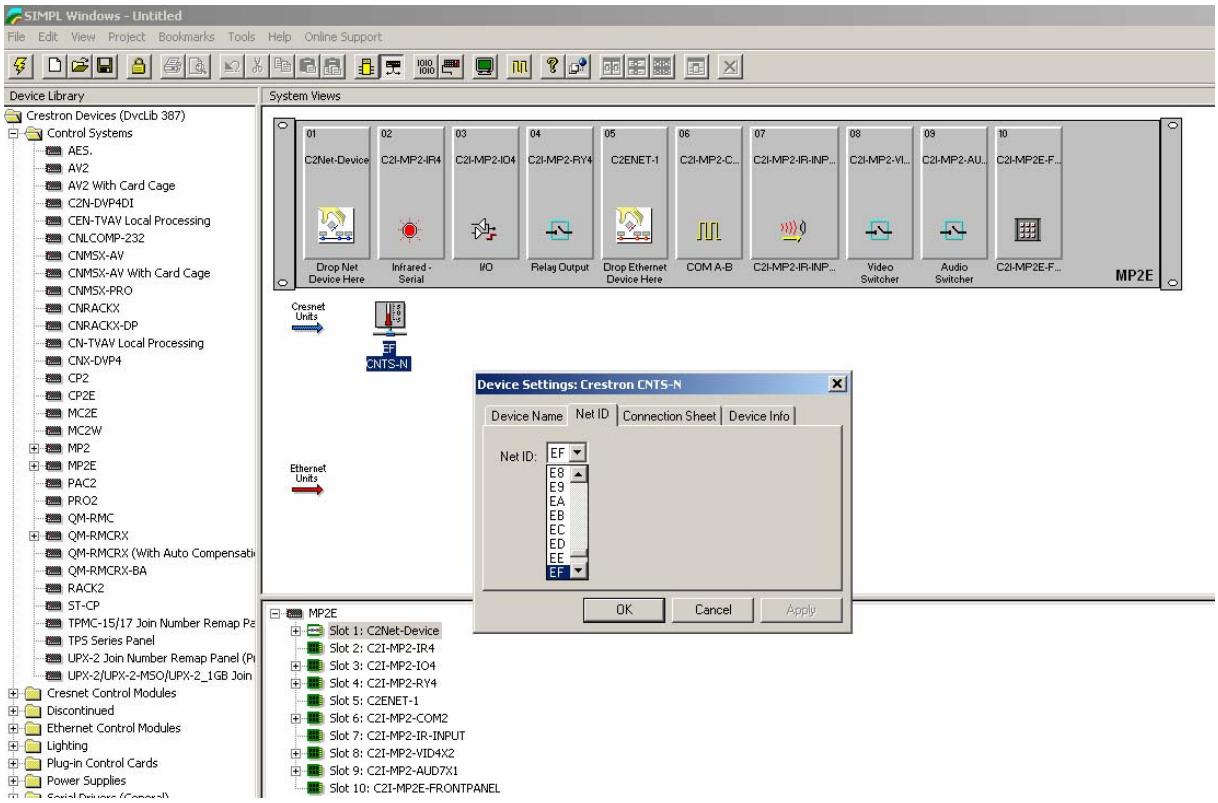

Figure 6: Hardware configuration

Programming manager

The CNTS-N symbol has 1 analog output that represents the temperature (Figure 7).

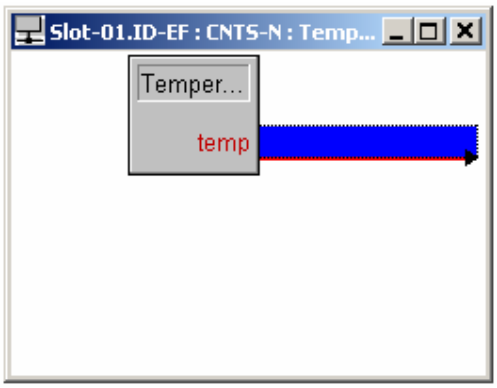

Figure 7: CNTS-N symbol

Example Program

Show temperature on a Touchpanel.

This example shows how you can send the measured temperature from the CH-TEMP-MW to a touchpanel. In order to show the desired value on a touchpanel you need to add a scaler to the program. For each type of readout, different scaler settings are needed.

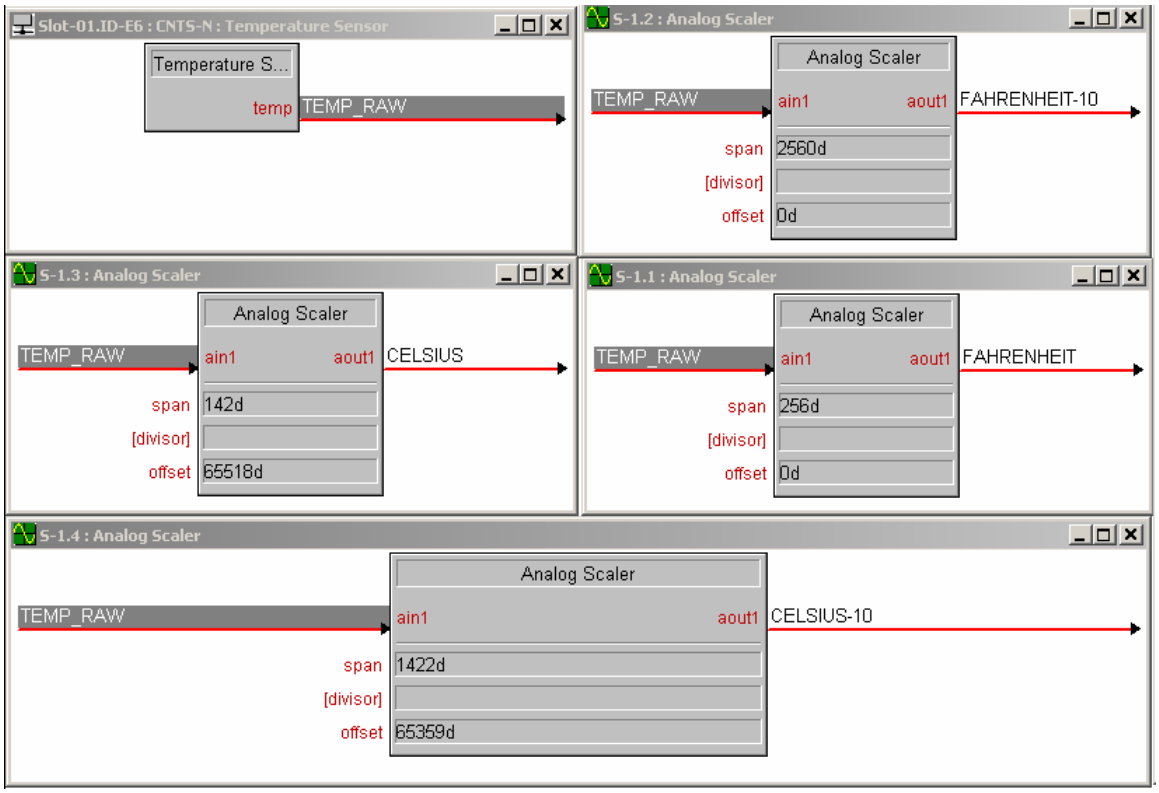

Figure 8: Example program

Problem Solving

Troubleshooting

Table 1 Provides corrective action for possible trouble situations.
If further assistance is required, please contact a Crestron Technical Support representative or submit your question on the Crestron True Blue On Line Service (www.crestron.com)

Table 1: Troubleshooting Guide

TROUBLE	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
CH-TEMP-WM does not function	CH-TEMP-WM is not communicating on the network.	Enter Viewport/Toolbox in SIMPL Windows. Verify network connection to CH-TEMP-WM (it will report as a CNTS-N).
The Blue LED is not lighting up when Cresnet is supplied.	CH-TEMP-MW is not receiving 24V power at the NET connector or jumper is removed at the back.	Verify "CRESNET Connections" on page 5. Confirm power is supplied to the unit. Or put the jumper back in place.
The measured temperature is incorrect.	The CH-TEMP-MW is placed in a wrong location. Causing wind, heating system,… to interfere with the sensor.	Move the CH-TEMP-WM to another place of the room. So that interference is minimal.
Incorrect value is shown on the touchpanel.	The properties of the digital gauge in VTPRO-E are not set OK or the scaler is wrongly programmed.	Verify that the correct decimal position and amount of digits is set in the properties of the digital gauge. Check that the scaler in Simpl Windows is set OK.

Further Inquiries

If after reviewing this Operations Guide on the CH-TEMP-MW, you cannot locate specific information or have questions, please take advantage of Crestron's award winning customer service team by calling:

- In Europe, call Crestron International at +32-15-50-99-50.
- In the UK, call Crestron UK at +44-20.845.74.007.
- In Germany, call Crestron Germany at +49-731.96.28.10.
- In France, call Crestron France at +33-1-47-91-00-00.
- In Spain, call Crestron Iberica at +34.952.76.82.33
- In the Benelux, call Crestron Benelux at +32-15-50-40-70.